

***CORYNEBACTERIUM GLUTAMICUM* GENES ENCODING METABOLIC
PATHWAY PROTEINS**

Abstract of the Disclosure

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Isolated nucleic acid molecules, designated MP nucleic acid molecules, which
encode novel MP proteins from *Corynebacterium glutamicum* are described. The
invention also provides antisense nucleic acid molecules, recombinant expression
vectors containing MP nucleic acid molecules, and host cells into which the expression
10 vectors have been introduced. The invention still further provides isolated MP proteins,
mutated MP proteins, fusion proteins, antigenic peptides and methods for the
improvement of production of a desired compound from *C. glutamicum* based on
genetic engineering of MP genes in this organism.